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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Published before October 2000

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1 Improved algorithms for synchronizing computer network clocks

David L. Mills

June 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 3

Publisher: IEEE Press

Full text available: pdf(1.16 MB)

Additional Information: full citation, references, citings, index terms,
review

² An interfacing and electronics course for computer science majors



Michael Henry

June 1987 **ACM SIGCSE Bulletin**, Volume 19 Issue 2

Publisher: ACM Press

Full text available: pdf(384.25 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A course suitable for inclusion in the Curriculum '78 recommendations [1] under Special Topics is described here. The course introduces students to microcomputer interfacing and digital electronics principles via preassembled breadboard projects. For each of the projects, students develop software control and learn circuit design principles. The course covers digital devices without using electronics workstations, but a small microcomputer lab is required.

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"synchronize" and "pulse per second" and "tim

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[M Shein](#)

[P Agarwala](#)

[Empi, Inc](#)

[M Maxwell](#)

Pulse width modulation system - group of 2 »

DP Masher, LJ Chaitin - US Patent 4,426,667, 1984 - Google Patents

... When a 100,000 **pulse-per-second** clock 32 thereafter ... **reload** divider 146 with the output

of latch 170 and ... The **time** elapsed since the first transition is 500 micro ...

[Cited by 4](#) - [Related Articles](#) - [Web Search](#)

Programmable functional electrical stimulation system - group of 2 »

P Agarwala - US Patent 4,622,973, 1986 - Google Patents

... by Rate Select switch 26 varies from one **pulse per second** to ninety ... switch 44 is used to select the "**time** off position ... 42 is placed in either the "SYNC" or the ...

[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

PROGRAMMABLE TELEMETRY SYSTEM

MS Maxwell - US Patent 3,546,684, 1970 - Google Patents

... which indicate **time** in serial, binary coded decimal code in terms of seconds, minutes, hours and days formatting unit 38, or words representing **synchronization** ...

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"synchronize" and "pulse per second"

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[D Mills](#)

[A Phadke](#)

[A Jacobson](#)

[D Schilling](#)

[K Henrich](#)

[Synchronized phasor measurements in power systems - group of 3 »](#)

AG Phadke - Computer Applications in Power, IEEE, 1993 - [ieeexplore.ieee.org](#)

... Units Phasor measuring units (PMUs) using **synchronization** signals from ... GPS receiver

provides the 1 **pulse-per-second** (pps) signal, and a **time** tag, which ...

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[Time-of-day clock synchronization among multiple processing units - group of 2 »](#)

RM Smith - US Patent 3,932,847, 1976 - [Google Patents](#)

... carry pulse rate of about a one **pulse per second** rate. ... pulses to **synchronize** the part of any TOD clock having to give the program ample **time** in the setting and ...

[Cited by 17](#) - [Related Articles](#) - [Web Search](#)

[GPS synchronized frequency/time source - group of 3 »](#)

TN Osterdock, DC Westcott, QD Hua - US Patent 5,440,313, 1995 - [Google Patents](#)

... In BERs, network **synchronization** is critical; that is, the 40 communications network applications in particular, an ... **pulse per second time** output. ...

[Cited by 25](#) - [Related Articles](#) - [Web Search](#)

[Method and apparatus for synchronization of time stamping](#)

K Aksnes - US Patent 6,104,729, 2000 - [Google Patents](#)

... **Time of Day**) and **PPS (Pulse per second)** to asynchronization ... synchronized absolute **time** between the **time** stamping clocks ... pulse is used to **synchronize** the clocks ...

[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

[Electronic calorie counter - group of 4 »](#)

C Brejnik, WT Whitlow - US Patent 4,101,071, 1978 - [Google Patents](#)

... cies necessary to **synchronize** the operation of the cir- ... base, said driver circuit receive- ing the 64 **pulse per second** frequency from said **time** base, said ...

[Cited by 18](#) - [Related Articles](#) - [Web Search](#)

[Outdoor movie camera GPS-position and time code data-logging for special effects production - group of 3 »](#)

AN Woo, DS Sprague - US Patent 5,642,285, 1997 - [Google Patents](#)

... with a highly-accurate one **pulse-per-second** output (ione ... **SMPTE time** code has eighty bits, or cells, in ... used for **synchronization** of the **time** code, three are ...

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[Precision synchronization of computer network clocks - group of 15 »](#)

DL Mills - ACM SIGCOMM Computer Communication Review, 1994 - [ee.udel.edu](#)

... is possible using **NTP** to **synchronize** a number ... radio clocks produce a 1 **pulse-per-second** (**PPS**) signal ... turns the **PPS** signal on-**time** transition into a valid character ...

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Time-keeping system and method for synchronizing independent recordings of a live performance in ... - group of 3 »

A Woo, DS Sprague - US Patent 5,479,351, 1995 - Google Patents

... accumulated to for the one-pulse-per-second output, accurate ... with the date and time code information ... recordings, according to a **synchronization** between the first ...

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Real time clock apparatus for fast acquisition or GPS signals - group of 2 »

TM King, JJ Ogren - US Patent 5,893,044, 1999 - Google Patents

... 2 illustrates the improved real-time clock circuit 30 and the flip flops 32 necessary to **synchronize** the GPS receiver time base 11 with the real-time clock ...

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Time synchronization apparatus and a method thereof using a global positioning system of a satellite - group of 2 »

HY Joo - US Patent 5,757,786, 1998 - Google Patents

... **synchronize** the time using the tracing state signals ... stable precise time information having an error range within ... by obtaining a GPS 1 pps (One Pulse Per Second) ...

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[T King](#)

[Precision synchronization of computer network clocks - group of 15 »](#)

DL Mills - ACM SIGCOMM Computer Communication Review, 1994 - ee.udel.edu

... it is possible using NTP to **synchronize** a number ... extracts the timestamp as the actual **time** of arrival. ... radio clocks produce a 1 **pulse-per-second** (PPS) signal ...

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[The network computer as precision timekeeper - group of 11 »](#)

DL Mills - Proc. Precision Time and Time Interval (PTTI) Applications ..., 1996 - dependability.cs.virginia.edu

... and counter delivering a **pulse-per-second** (PPS) signal ... according to the prevailing **synchronization** distances. ... pulse causes aa **timer interrupt**, which increments ...

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[Time-of-day clock synchronization among multiple processing units - group of 2 »](#)

RM Smith - US Patent 3,932,847, 1976 - Google Patents

... carry pulse rate of about a one **pulse per second** rate. ... is out of synch in any of clocks can be synchronized to its **time** value by ... 9N, the TOD clock sync-check ...

[Cited by 17](#) - [Related Articles](#) - [Web Search](#)

[Improved algorithms for synchronizing computer network clocks - group of 7 »](#)

DL Mills - Networking, IEEE/ACM Transactions on, 1995 - ieeeexplore.ieee.org

... In this paper to **synchronize** frequency means to adjust the subnet clocks to run at the same frequency, to **synchronize time** means to set them to agree at a ...

[Cited by 155](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Specification and Implementation of the Universal Time Coordinated Synchronization Unit \(UTCSU\) - group of 14 »](#)

K Schossmaier, U Schmid, M Horauer, D Loy - Real-Time Systems, 1997 - Springer

... The reason to make accuracies **time**-dependent is to enlarge ... executed by a clock **synchronization** algorithm aim ... an **interrupt** whenever the former exceeds the latter ...

[Cited by 33](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Provision of SPS timing signals - group of 2 »](#)

C Abraham, JM Janky - US Patent 5,510,797, 1996 - Google Patents

... a sequence of timing signals for **synchronization** of the ... be periodic, for example, a One-Pulse- Per-Second signal for ... also be used to determine the **time** at which ...

[Cited by 20](#) - [Related Articles](#) - [Web Search](#)

[Multi-vessel timing synchronization method and device - group of 2 »](#)

NE Jacobsen, A Sauer, I McMillan, R Ronningen... - US Patent 5,650,981, 1997 - Google Patents

... 8BIT D ERIPH. PORT 425 r INT. LOGIC 440 10msec **TIMER** f me riC69000 CPU 442 >—PC

INTERRUPT t—462 BUS 460 ILS. Patent Jul. ... **SYNCHRONIZATION METHOD AND ...**
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Disciplined time scale generator for primary reference clocks - group of 4 »
GP Zampetti... - US Patent 5,666,330, 1997 - Google Patents
... Butterline, Abate and Zampetti, Use of GPS to **Synchronize** the AT&T National
Telecommunications Network AT2, A New Time Scale Algorithm: ATI Plus Frequency ...
[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

Real time clock apparatus for fast acquisition or GPS signals - group of 2 »
TM King, JJ Ogren - US Patent 5,893,044, 1999 - Google Patents
... epochs (ie, every 1000'th **interrupt**) become precisely known ... 2 illustrates the improved
real-time clock circuit 30 ... flip flops 32 necessary to **synchronize** the GPS ...
[Cited by 29](#) - [Related Articles](#) - [Web Search](#)

Method and apparatus for determining universal coordinated time from Loran-C transmissions
US Patent 5,220,333, 1993 - freepatentsonline.com
... while preserving the ability to **synchronize time** maintained at ... Microprocessor 27
then maintains **time** from the one **pulse per second interrupt** appearing on ...
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